

FIG. 1

1 ATGGCCGCTCGGGCTCTGAAACGCCGGTCCGAGACGGTCGGGAGCCCT  
11 ▶ MetAlaAlaArgGlyAlaGluAlaAlaGlyAlaGlyAspGlyArgArgGlyGlnArg  
64 CGTCATCTACGACCCGGACCTGTCTCGCTTGCTCTACGGGTCTGCAGCCCTGGCCGGC  
22 ▶ ArgHisIleArgProGlyArgValLeuAlaAlaLeuAlaAlaGlyProAlaAlaProGlyAlaAlaGly  
127 CGCCGCCGGCGCTAGCCGCTGCCCCCTGCTATGGCCACGTCGGCCCTGCTGCTGGCCGGC  
43 ▶ GlyAlaArgAlaAlaLeuAlaAlaLeuAlaAlaLeuAlaAlaLeuAlaAlaLeuAlaAla  
190 CCCGGCCGGGGGACCGGACAACGGCCCCGGGGGGGGGAAGAGGCCGAGCCCG  
64 ▶ ProAlaAlaGlyArgProAlaProAlaProProProGluAlaAlaSerProAspAsn  
253 CGCCGCCGGGAGCCCCAGCCGGACGACGCCGCCAGCCCCAACACAAAC  
85 ▶ AlaProProAlaSerProSerProProGlyProAspAspAlaAlaSerProAspAsn  
316 AGCACAGACCTGGCCGGCTCGCCAGCCCCGGAAACTCGGGCTCTTC  
106 ▶ SerThrAspValIleGlyAlaAlaLeuAlaAlaGlyGluAsnSerArgPhePhe  
379 CTGTGCCCCGGCTCGGGCACGGGTGGCTGGCTGGGGGGGGGGGG  
127 ▶ ValCysProProProSerGlyAlaAlaLeuAlaAlaGlyGluAsnSerArgPhePhe  
442 TACCGGCTGGGGAACTACACGGAGGGCATCGGCTATTACAAGGAGAACATGGCCG  
148 ▶ TyrGlyLeuGlyArgAspartylTyrGlyTleGlyValIleValIleLysGluAsnIleAlaPro  
505 TACACGTTCAAGGCCATTACAAAACGTGATCGGACCTGGCCGACGACC  
169 ▶ TyrTyrPheLysAlaTyrTleTlyAspValIleValIleTyrTyrTyrPheGlySerThr

FIG. 2A

568 TACCGGCCATTACAAACCACTAACGGCACCGCCGTGGCATGGGAGATCAGGAC  
 190 ▶ TYTAAAlalleleSerGlyTYTAspAlaProValGlyMetGlyGluIleThrAsp  
 631 CTGGTGACAAAGAAGTGGCTTCGCTTCGAAGCCGACTACCTGGCCAGGGCAAGGTC  
 211 ▶ LeuValAspLysIleSerGlyLeuSerGlySerGlyLeuAspGlyIleGlyVal  
 694 GGGCCTTTGACCCGACGGACCCCTGGAGGCCCTGAAGCCTGGCTGAGCGCCG  
 232 ▶ ValAlaPheAspAspAspProIlePheGluAlaProLeuIlysProAlaArgLeuSerAla  
 757 CCCGGCTGGGCTGGCACACGGCACGGATGCTACACGGCCCTGGCTCGGCTCGGGGGCTC  
 253 ▶ ProGlyValArgGlyTerPheGlyIleAspProValTyTAspAspValIleTerAla  
 820 TACCGCACGGCACCTCTGTGAAACTGCATCGTGAACAAGTGGAGGCCGCTCGCTACCCG  
 274 ▶ TYTArgTerGlyThrSerValAlaSerCysIleValGluIvalGluAlaArgSerValTyTPro  
 883 TACGACTCGTCCCCCTCTCGACCCGGCACATTATCTACATGTCGCCCTTACCCGCTGCC  
 295 ▶ TYTAspSerPheAlaLe:SerTerGlyAspIleIleTerMetSerProPheTerGlyLeuAla  
 946 GACCCGGCACACCAGGCTACTCGCCAGGGCTTCAGCAGATCGACGGCTA  
 316 ▶ GluGlyAlaHisArgGluHiSArgLeuAlaGlyLeuProAlaAspArgGlyLeu  
 1009 CTACAAGGGGACATGGCCACGGGGGGGCTCAAGGAGCCGAACTTTTGGC  
 337 ▶ LeuGlnAlaArgHiSGLYPToAlaProGlyLeuAlaGluLeuPheAla  
 1072 TACACACCACGGTAGCCCTGGACTGGCTGGCAAGGGAAAACGGTCTGGCTGGC  
 356 ▶ TYTAlaAlaArgHiSGLYSerLeuGlyLeuGlyLeuGlyAlaGluAlaGlyValLeuAlaGly

FIG. 2B

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1135 CAAGTGGCCGAGGCCAAATGCTGGAGACAGAGCCGGAAACTTCCCTTCACGGC  
379 ▶ Glu<sup>a</sup>ValAlaArgGlyAlaAsp<sup>b</sup>AlaAlaArgGlu<sup>c</sup>ProArgGlu<sup>d</sup>Leu<sup>e</sup>ProLeu<sup>f</sup>HisGly  
1198 CCGCTTCGCTCTCGGGACCTTGTGACGGACACACTTGCCTTGAGAATTGTCGCGCT  
400 ▶ ProLeuAlaLeuGlyAspLeuCysGlu<sup>a</sup>ArgGlu<sup>b</sup>Leu<sup>c</sup>Pro<sup>d</sup>His<sup>e</sup>Glu<sup>f</sup>Cys<sup>g</sup>AlaAla  
1261 GAGCCACTGCGTGTGATCGAACAGGCCGAGGCCGGTCAACCGGAGCCCTACCGGAGCCTACAA  
421 ▶ Glu<sup>a</sup>ArgLeu<sup>b</sup>AlaAsp<sup>c</sup>AlaArgGly<sup>d</sup>ArgGly<sup>e</sup>AlaArg<sup>f</sup>Leu<sup>g</sup>Pro<sup>h</sup>ArgGlu<sup>i</sup>AlaLeu<sup>j</sup>Gln  
1324 CGCACCCACGCTGCTGCGCACCTGGAGACGTACCTGGGGGGCTTGTGCTGGC  
442 ▶ Arg<sup>a</sup>His<sup>b</sup>AlaArg<sup>c</sup>AlaValGly<sup>d</sup>Glu<sup>e</sup>Leu<sup>f</sup>Gly<sup>g</sup>Asp<sup>h</sup>ValProGly<sup>i</sup>AlaArg<sup>j</sup>Arg<sup>k</sup>Gly<sup>l</sup>  
1387 CTTCCGGCATGCTAGCAACGAGCTGGCAAGCTGTACCTGAGGCTGGGGCTCCAAC  
463 ▶ Leu<sup>a</sup>ProAlaMetLeu<sup>b</sup>Ser<sup>c</sup>Asn<sup>d</sup>Glue<sup>e</sup>AlaAlaLys<sup>f</sup>Leu<sup>g</sup>Arg<sup>h</sup>Leu<sup>i</sup>AlaArg<sup>j</sup>Ser<sup>k</sup>Asn  
1450 GCCACCGCTCAGGGCTGTGCCCCGGCCAAAGCCCCGGCCGGCCGGCC  
484 ▶ Gly<sup>a</sup>ThrLeu<sup>b</sup>Glu<sup>c</sup>Gly<sup>d</sup>Leu<sup>e</sup>Phe<sup>f</sup>AlaAlaAlaPro<sup>g</sup>Lys<sup>h</sup>Pro<sup>i</sup>Arg<sup>j</sup>Arg<sup>k</sup>Arg<sup>l</sup>  
1513 CCCGGCCGCTGCACTTGGCCCCGGCCAAACGGGGGGGGGACGGGACGCC  
505 ▶ AlaAlaProSerAlaProGly<sup>a</sup>Arg<sup>b</sup>Leu<sup>c</sup>AlaAlaAlaAsp<sup>d</sup>Gly<sup>e</sup>ProAlaGly<sup>f</sup>Asp<sup>g</sup>Ala  
1576 CCCGGCCGCTGCACTTGGCCCCGGCTGGCACTTACCTACGACCAC  
526 ▶ Gly<sup>a</sup>Gly<sup>b</sup>Arg<sup>c</sup>Val<sup>d</sup>Thr<sup>e</sup>ValSer<sup>f</sup>Ser<sup>g</sup>AlaGlu<sup>h</sup>Leu<sup>i</sup>AlaLeu<sup>j</sup>Arg<sup>k</sup>Asp<sup>l</sup>Asp<sup>m</sup>  
1639 ATCCAGGACCACGTGAACACCATGTTCAAGCCGGCTGGCCACGTCCCTGGCTGGCAGAAC  
547 ▶ IleGluAsp<sup>a</sup>Asp<sup>b</sup>Asn<sup>c</sup>Asn<sup>d</sup>Asp<sup>e</sup>Ile<sup>f</sup>Val<sup>g</sup>Asp<sup>h</sup>Leu<sup>i</sup>Leu<sup>j</sup>Asp<sup>k</sup>Asn<sup>l</sup>

FIG. 2C

FIG. 2D

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2269 ACGGACGGCAATATGCCATCATGCCAGGGCTCCAACTTCTTCAGGCCCTGGCCGGCGTC  
757 ▶ The ASP GLY Asn Met Ala Ile Met Arg Gly Leu Ala Asp Phe Glu Gly Leu Gly Val  
2332 CCCACGGCGGTGGCACGGTGCTGCTGGCGCCGGCTGGCTCTGACCGTGTGGCGC  
778 ▶ Gly Glu Ala Val Gly Thr Val Val Leu Gly Ala Ala Gly Ala Ala Leu Ser Thr Val Ser Gly  
2395 ATCGGCCTCGTTATTGCGAACCGGTTGGCTGGCGCTGGCCACGGGCTGCTGGCTGGCGC  
799 ▶ Ile Ala Ser Phe Ile Ala Asn Pro Phe Glu Gly Ala Thr Gly Leu Ile Val Leu Val Leu Val Gly  
2458 CTGGTGGCCGTTCTGGCGTACCGGTACATTCCGGCTCCGAGCAAACCCATGAAAGGG  
820 ▶ Leu Val Ala Ala Phe Leu Ala Val Tyr Tyr Ile Ser Arg Leu Arg Ser Asn Pro Met Lys Ala  
2521 CTGTACCCGATCACCAACCGACGCCAGGCCAACCCCCGGCGAC  
841 ▶ Leu Tyr Pro Ile Thr Thr Arg Ala Leu Lys Asp Asp Alan Arg Gly Ala Thr Ala Phe Gly Leu Val  
2584 GAAGAGGAGCTTGACGGACCAACCTGGAGCACGCCAGATGATCAA  
862 ▶ Glu Glu Glu Glu Phe Asp Alan Lys Leu Glu Glu Ala Arg Glu Met Ile Lys Tyr Met Ser  
2647 CTCGTGTCAACGGCTGAGCCAAAGGACAAGGCAACAAAGGCGCCGCTG  
883 ▶ Leu Val Ser Ala Val Glu Arg Glu Val His Lys Ala Lys Lys Ser Asn Lys Gly Gly Pro Leu  
2710 CTGGCCACCCGGCTGACCCAGGCCAAGGACAAGGCAACAAAGGCGCCGCTG  
904 ▶ Leu Val Thr Arg Leu Val Glu Arg Ala Leu Arg Ala Arg Ala Lys Glu Glu Leu  
2773 CCCATGGCCCACGTGGGGCATGA  
925 ▶ Pro Met Ala Asp Val Gly Gly Ala •••

FIG. 2E

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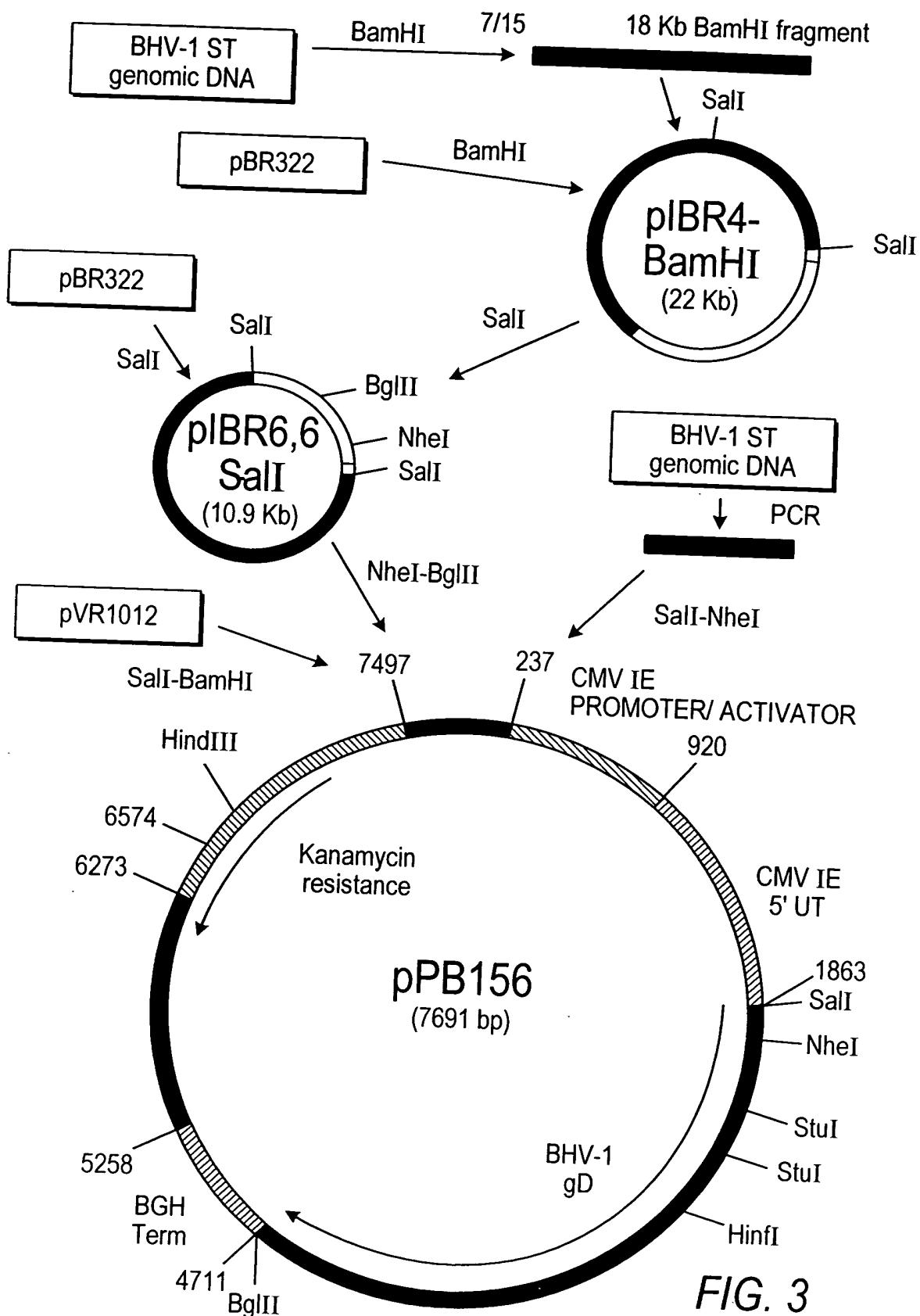


FIG. 3

PROMOTER ACTIVATOR

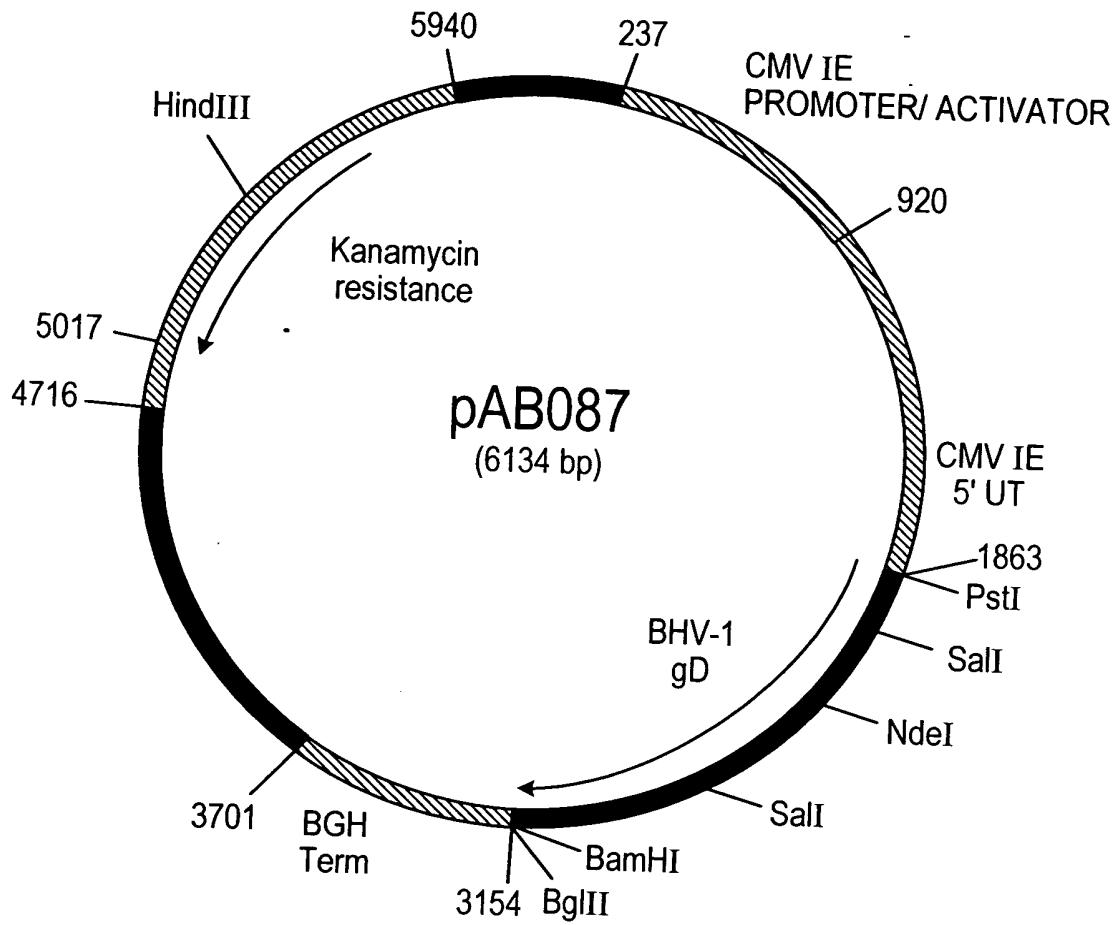


FIG. 4

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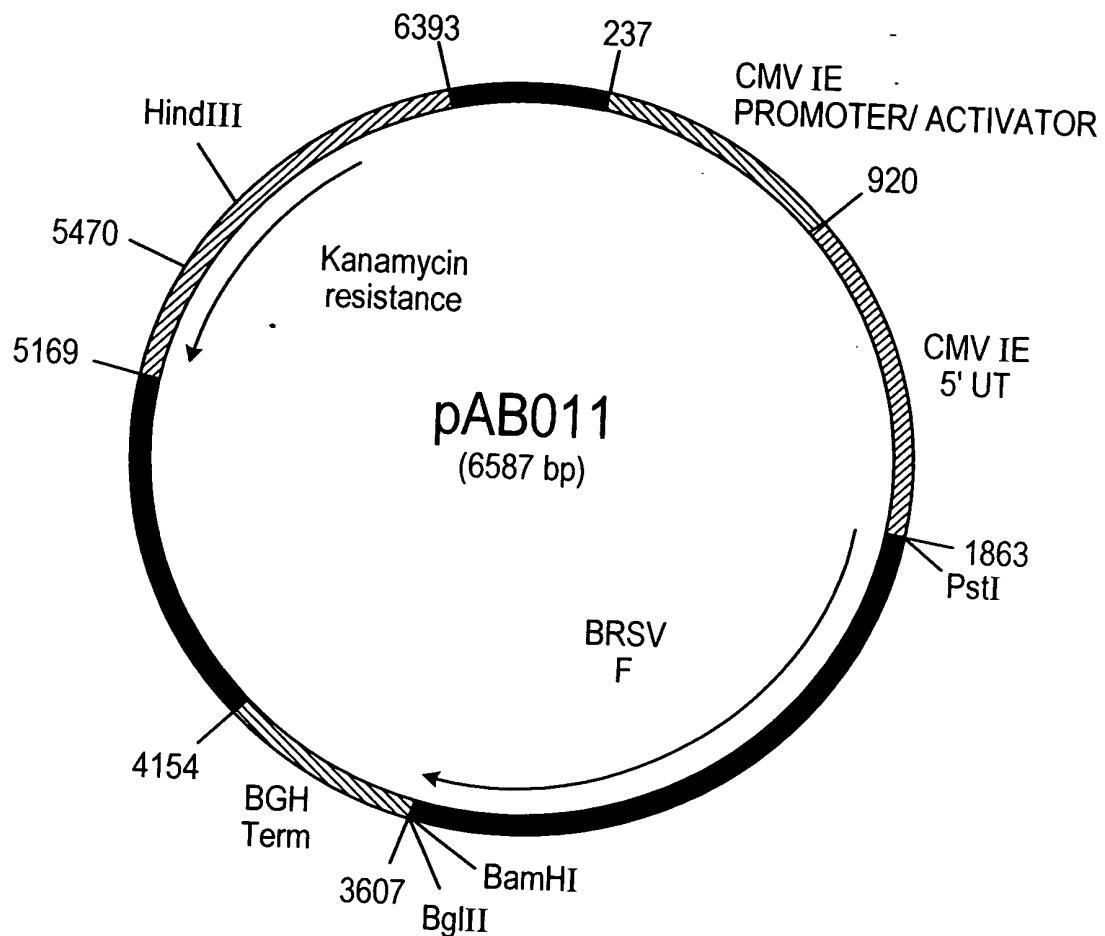


FIG. 5

A G C T T A G C T T G C T T G C T T

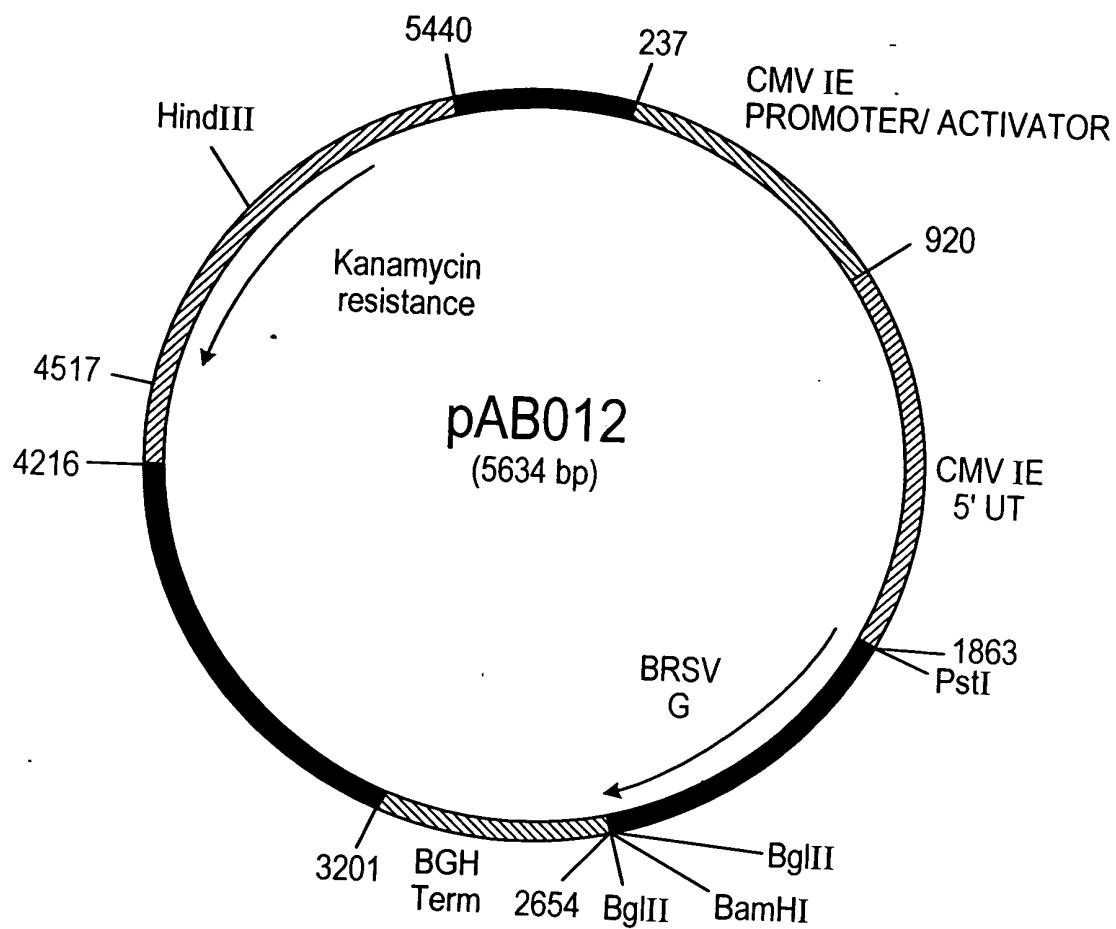


FIG. 6

A DRAFT OF A DESIGN

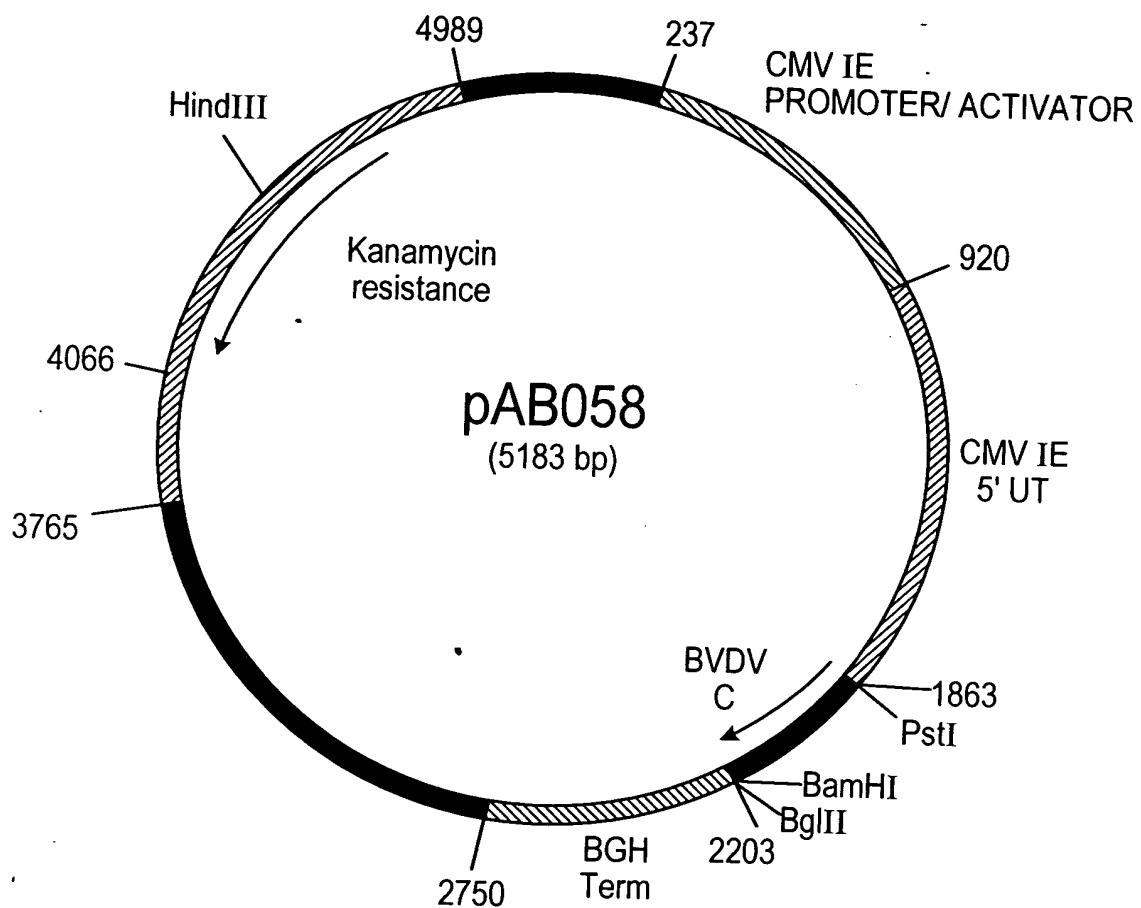


FIG. 7

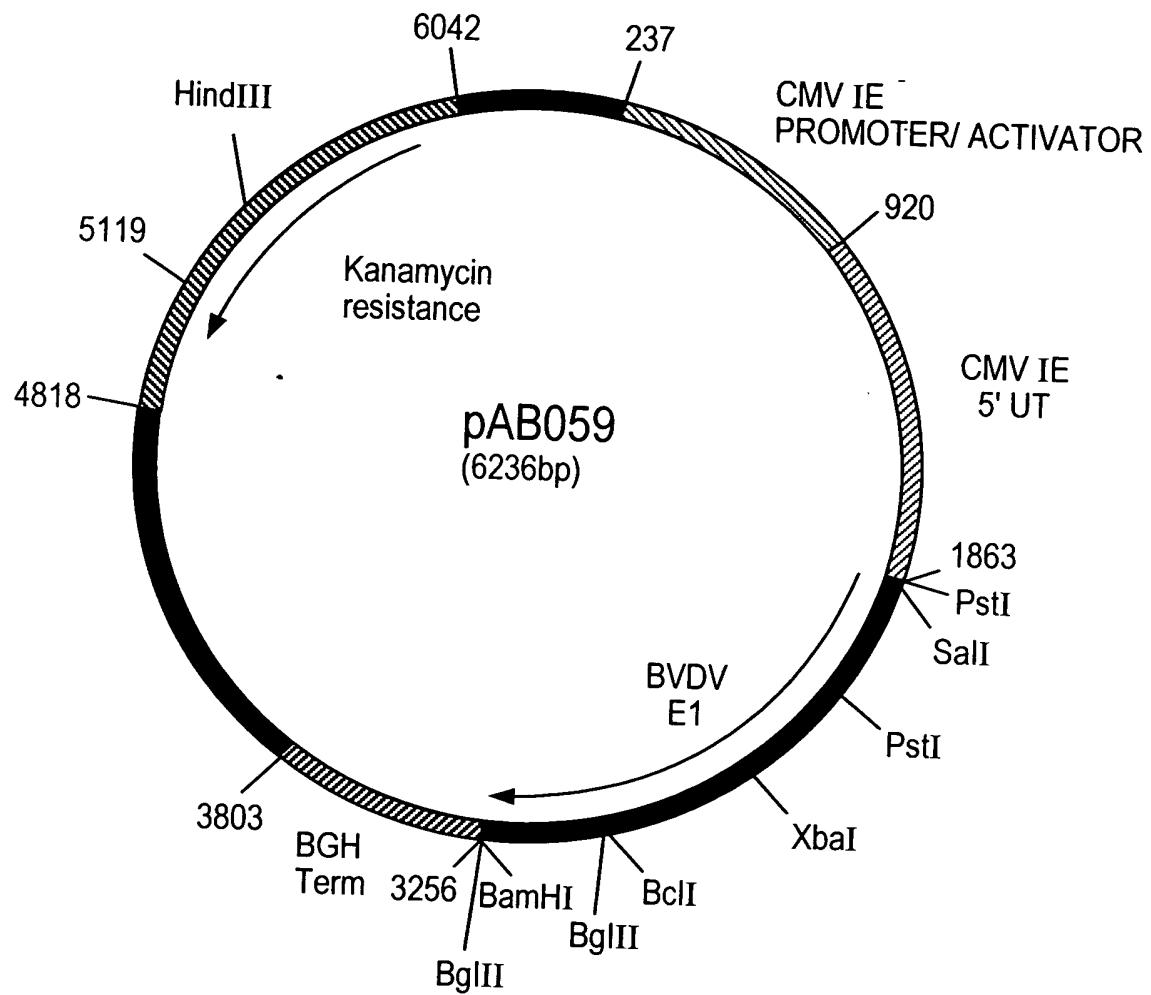


FIG. 8

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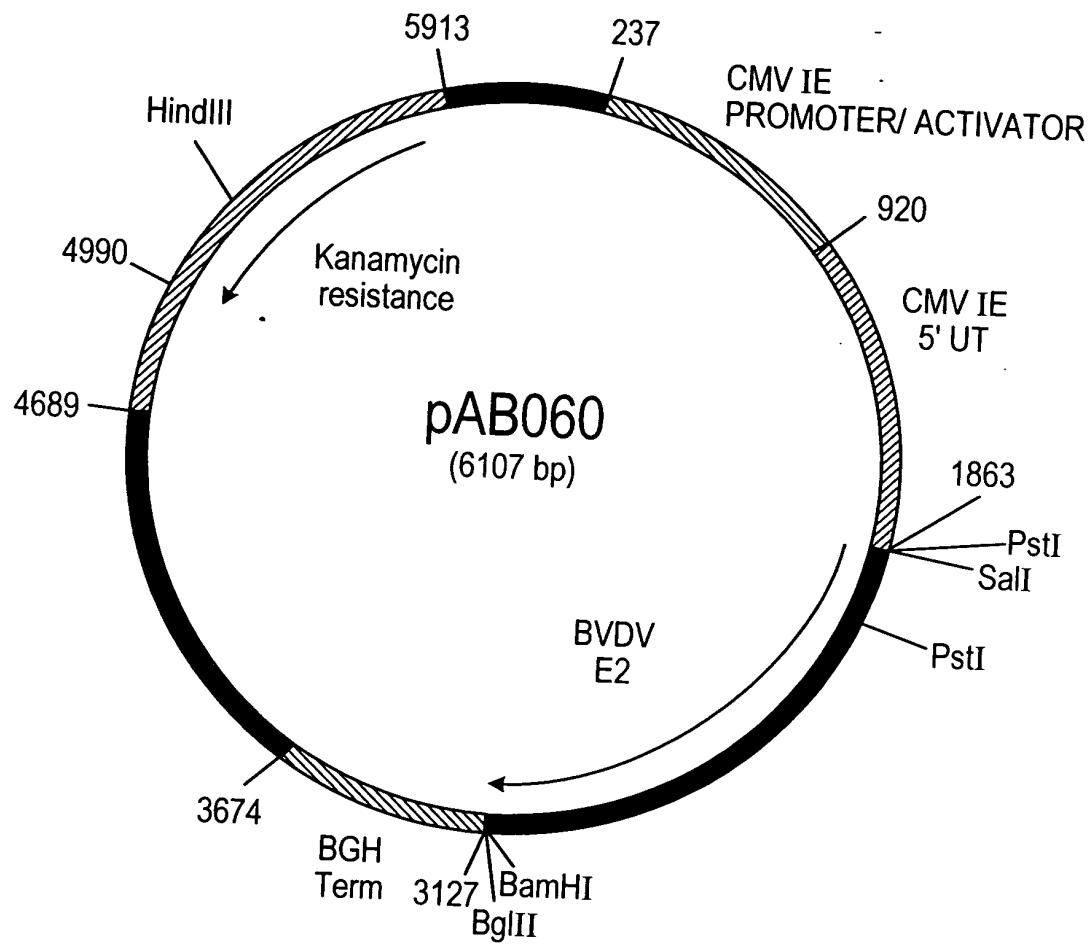


FIG. 9

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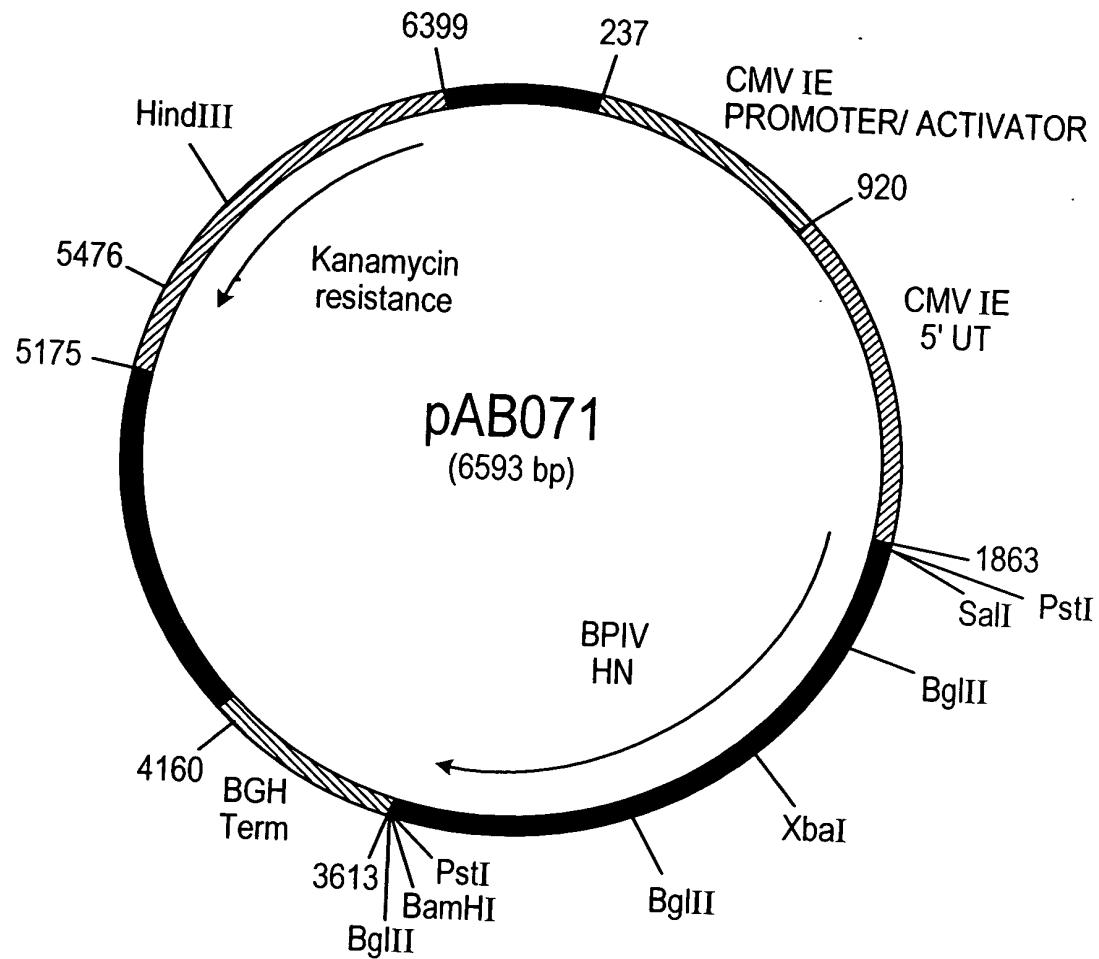


FIG. 10

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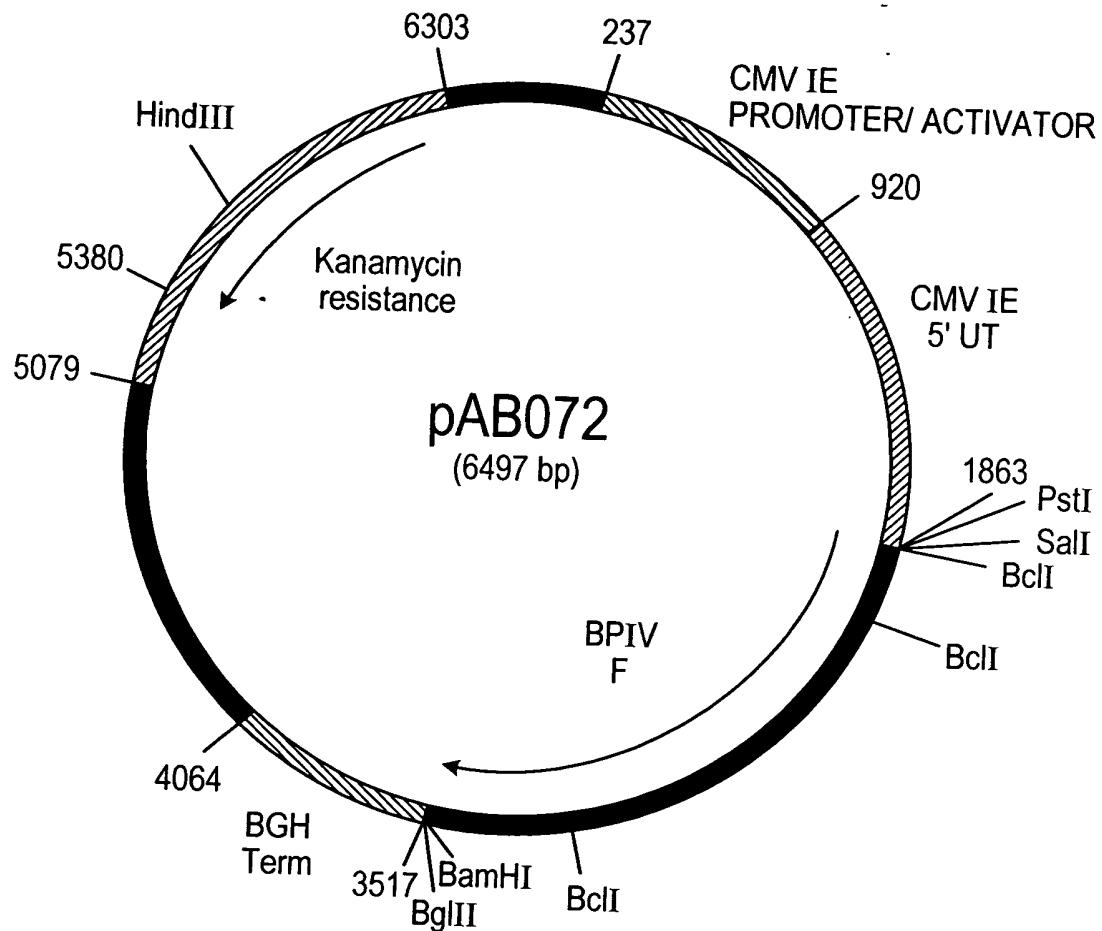


FIG. 11